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Dairy Herd Improvement Letter

NATIONAL COOPERATIVE DAIRY HERD IMPROVEMENT PROGRAM PARTICIPATION REPORT-- STATE ACTIVITIES AS OF JANUARY 1, 1982

By H. D. Norman, E. F. Myers, and F. N. Dickinson¹

Participation in the National Cooperative Dairy Herd Improvement Program (NCDHIP) continues to expand. As of January 1, 1982, NCDHIP included 43.1 percent of U.S. dairy cows as compared with 40.2 percent last year. The program now enrolls 4,790,180 cows and 14,449 does.

This report is prepared annually to summarize State activities in many segments of NCDHIP. Information is provided by either the State Extension Dairy Specialists advising on NCDHIP in their respective States or personnel from the nine dairy records processing centers that compute Dairy Herd Improvement Association (DHIA) records for the States.

All information in this report represents State participation as of January 1, 1982, unless otherwise indicated. Puerto Rico and the Virgin Islands are listed in the tables under the heading State; this results in a total of 52 NCDHIP States. A Guide to Tables based on highlights is included.

Table 1 shows 50 State DHIA's in existence on January 1, 1982. Only Alaska and Mississippi do not have a State DHIA. Forty-three States were members of National DHIA. The number of testing associations increased by 18 to 1,084 and the number of testing supervisors by 92 to 2,916.

Table 2 ranks the States by cow population ranges and percentage of cows enrolled in any NCDHIP plan. The proportion of U.S. dairy cows enrolled in NCDHIP is the highest in history at 43.1 percent. California ranks highest among the major dairy States, with 60.7 percent of cows enrolled. Of the States with large cow populations, Michigan, New York, Pennsylvania, Washington, and Wisconsin have nearly 50 percent or more cows enrolled. Most States showed an increase in participation; 16 States now have over 50 percent of cows enrolled.

Table 3 summarizes participation in official and nonofficial NCDHIP plans by State. The dairy cow population in each State as reported by the Statistical Reporting Service, U.S. Department of Agriculture, is presented, and these figures are used as the basis for determining each State's percentage of participation in the various plans

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throughout this report. The U.S. dairy cow inventory of 11,107,000 cows includes 109,000 from Puerto Rico and the Virgin Islands. Nearly 4.8 million U.S. dairy cows from 65,873 herds were enrolled in NCDHIP. Participation of U.S. dairy cows in official plans is 30.5 percent, an increase from 28.7 percent last year; participation in nonofficial plans is 12.7 percent, an increase from 11.5 percent last year. Records from cows enrolled in official plans are used in calculating genetic evaluations for bulls and cows. Nearly 3.4 million U.S. cows now are enrolled in official plans as compared with 3.2 million a year ago.

Table 4 shows how enrollment in NCDHIP changed during the past year. Out of 52 States, 45 increased cow enrollment, 10 States by more than 10,000 cows. There was an increase in all testing plans of 2,898 herds and 310,112 cows. Forty-nine percent of the increase in the number of herds enrolled and 60 percent of the increase in the number of cows enrolled were reflected in official plans. For all plans, the greatest increases in the number of herds enrolled came from Wisconsin, Minnesota, Pennsylvania, and Iowa, and the largest increases in cows came from Wisconsin, Minnesota, California, Pennsylvania, and Michigan. For official plans, California, Wisconsin, and Minnesota showed the largest increases in the number of cows enrolled. For nonofficial plans, Wisconsin and New York showed large increases in numbers of herds and cows enrolled. Much of this increase in New York appears to result from a decrease in the herds enrolled in official plans.

Enrollment in Official DHI, the traditional plan, continued to show a small decrease, with a decline of 560 herds and 5,254 cows (table 5). This decrease in the presence of an expanding program indicates that dairymen are using alternative plans suitable to their individual needs; still, Official DHI is the plan used by most dairymen participating in NCDHIP, with an enrollment of 31,647 herds and 2,510,461 cows.

Table 6 shows the participation in the Official DHI AM-PM plan, which requires a monitoring device to record time of milking. Enrollment in Official DHI AM-PM increased from 667 herds a year ago to 1,242 herds in January 1982. The corresponding number of cows enrolled increased from 49,014 to 100,141. Much of the participation in this plan is from Minnesota.

Table 7 shows participation in Official DHI with Alternate AM-PM Component Sampling, the plan with the greatest growth. Herd enrollment increased from 2,269 to 3,265 and cow enrollment from 276,974 to 374,955. Much of this change was due to increased enrollment in Tennessee and Texas. The increase in Tennessee appears to be due primarily from a decrease in the herds enrolled in Official DHI. From examination of changes in the number of herds and cows enrolled in each plan for each State, the Official DHI plan appears to have had many new herds enrolled but also to have lost a large number to other plans such as Official DHI with Alternate AM-PM Component Sampling.

Participation in the breed association-sponsored Dairy Herd Improvement Registry (DHIR) plan showed an increase of 362 herds and 35,770 cows more than last year's enrollment (table 8). This is an increase of 8.5 percent in the number of herds and 10.4 percent in the number of cows. Participation is at an alltime high with 4,646 herds and 378,360 cows now enrolled in this plan. The largest increase in herds enrolled was in Wisconsin and the largest increases in cows in Wisconsin and California.

Table 9 shows participation in Official DHIR AM-PM with Monitoring Device. Only two herds are enrolled in this plan. Table 10 gives enrollment in Official DHIR with

Alternate AM-PM Component Sampling. For the second consecutive year, this plan nearly doubled in size and now enrolls 18,612 cows in 131 herds.

There are 13 nonofficial plans (8 unsupervised and 5 supervised) in NCDHIP, with a total enrollment of 24,940 herds and 1,407,203 cows. Participation in the 8 unsupervised plans (tables 11-16, 22-23) accounts for 8.8 percent of all U.S. dairy cows, with 20,121 herds and 973,946 cows. Six of these unsupervised plans (tables 11-16) are Owner-Sampler plans, with an enrollment of 19,960 herds and 960,950 cows, accounting for 8.7 percent of all U.S. dairy cows. The most significant change occurred in the Owner-Sampler AM-PM plan (table 12), with the number of herds enrolled increasing by 836 to 3,065 and the number of cows by 45,582 to 157,602. Minnesota showed the greatest change with 772 herds and 35,236 cows now enrolled, an increase of 370 herds and 16,894 cows.

Tables 17 and 18 show the enrollment for the Commercial and the Commercial AM-PM plans. These supervised plans now enroll 425 herds and 115,051 cows, an increase of 163 herds and 18,114 cows.

Enrollment in the Supervised AM-PM, the Supervised Milk-Only-Records, and the Supervised AM-PM Milk-Only-Records plans is shown in tables 19-21. Participation in these 3 nonofficial supervised plans accounts for 2.9 percent of all U.S. dairy cows, with 4,394 herds and 318,206 cows. Enrollment in the Supervised AM-PM plan is 3,965 herds and 237,765 cows, an increase of 607 herds and 37,191 cows, accounting for 2.1 percent of all U.S. dairy cows. Most of the increase was from New York and Iowa.

Table 22 shows enrollment in the Basic Management and Production plan. Current enrollment in this unsupervised plan is 127 herds and 11,029 cows, a decrease of 62 herds and 2,906 cows. All other nonofficial plans had increased enrollment for the numbers of herds and cows (table 23).

Table 24 contains information on State enrollment of dairy goats in NCDHIP recordkeeping plans. The enrollment of 1,616 herds and 14,449 does is higher than last year's enrollment by 205 herds and 915 does. This represents a 14.5-percent increase in the number of herds and a 6.8-percent increase in the number of does enrolled in test plans compared with enrollment a year ago. Thirty-four States showed an increase in the number of does enrolled. Oregon had an increase of 562 does, but California had a decrease of 465 does.

Participation in NCDHIP services has increased (table 25). On January 1, 1982, 23,645 cow herds and 2,068,221 cows were participating in mastitis screening programs. Minnesota had the greatest increase since last year, with an additional 84,791 cows reported. Increased participation in both protein and solids-not-fat (SNF) testing was significant. Protein percentage of milk was tested for 1,170,637 cows and SNF percentage for 255,437 cows, an increase of 953,187 cows for protein testing and 59,056 for SNF testing. Wisconsin and New York showed increases of 296,828 and 358,905 cows over last year's participation in protein testing, and California increased participation in SNF testing by 59,846 cows. Forage testing, pregnancy testing, and ration balancing are some of the other services offered, with forage testing having the most active participation of the three services. Four of the dairy record processing centers--California, New York, North Carolina, and Utah--have on-line capability for computer service available to both DHIA management and dairymen.

Participation in the Verified Identification Program (VIP), a grade identification program sponsored by NDHIA, is shown in table 26. From 1976 through January 1, 1982, 63,412 animals have received VIP certificates, with 16,731 animals certified in 1981, 3,910 more than in 1980.

Table 27 summarizes the trends in official NCDHIP recordkeeping plans since the beginning of NCDHIP in 1906. In 1982, the number and percentage of cows enrolled in NCDHIP increased. Milk and fat yield for cows in official plans averaged 15,134 pounds of milk and 558 pounds of fat. Fat percentage decreased to 3.68. Table 28 summarizes the trends in nonofficial NCDHIP recordkeeping plans since 1956. Milk and fat yield for cows enrolled in nonofficial plans averaged 14,101 pounds of milk and 530 pounds of fat. Fat percentage decreased to 3.74. Enrollment and average production in official and nonofficial plans reached new alltime highs in 1982.

Table 29 is a list of Extension Dairy Specialists who advise on NCDHIP.

<u>Highlight areas</u>	Page
Summaries of official and nonofficial plans:	
Changes in cows from last year's report - - - - -	9
Cows for all plans: Official and nonofficial - - - - -	8
Goats for all plans: Official and nonofficial - - - - -	22
Members, associations, and supervisors - - - - -	6
Percentage of cows in NCDHIP by range - - - - -	7
Summary of nonofficial records by years - - - - -	26
Summary of official records by years - - - - -	25
Cows enrolled in official plans:	
DHI - - - - -	10
DHI AM-PM Component Sampling - - - - -	12
DHI AM-PM with Monitoring Device - - - - -	11
DHIR - - - - -	13
DHIR AM-PM Component Sampling - - - - -	14
DHIR AM-PM with Monitoring Device - - - - -	14
Cows enrolled in nonofficial plans:	
Basic Management and Production - - - - -	21
Commercial - - - - -	18
Commercial AM-PM - - - - -	19
Others - - - - -	21
Owner-Sampler - - - - -	15
Owner-Sampler AM-PM - - - - -	16
Owner-Sampler AM-PM Milk-Only-Records - - - - -	17
Owner-Sampler Milk-Only-Records - - - - -	17
Owner-Sampler with Alternate AM-PM Component Sampling - - - - -	16
Owner-Sampler with Average (Breed or Plant) Components - - - - -	18
Supervised AM-PM - - - - -	19
Supervised AM-PM Milk-Only-Records - - - - -	21
Supervised Milk-Only-Records - - - - -	20
Other areas of interest:	
Extension Dairy Specialists advising on NCDHIP - - - - -	27
Types of services for cows and goats - - - - -	23
Verified Identification Program - - - - -	24

TABLE 1.--STATE DAIRY HERD IMPROVEMENT ASSOCIATIONS, MEMBERSHIP IN NATIONAL DAIRY HERD IMPROVEMENT ASSOCIATION, INC., ASSOCIATIONS, AND SUPERVISORS IN THE NATIONAL COOPERATIVE DAIRY HERD IMPROVEMENT PROGRAM, JANUARY 1, 1982

STATE 1/	STATE 1/	MEMBER OF NDHA, INC.	ASSOCIATIONS	SUPERVISORS	STATE 1/	STATE 1/	MEMBER OF NDHA, INC.	ASSOCIATIONS	SUPERVISORS
			NUMBER	NUMBER				NUMBER	NUMBER
ALABAMA-----	YES	NO	18	29	NEW HAMPSHIRE----	YES	YES	8	14
ALASKA-----	NO	NO	1	1	NEW JERSEY-----	YES	YES	5	20
ARIZONA-----	YES	YES	1	17	NEW MEXICO 3/----	YES	YES	4	7
ARKANSAS-----	YES	YES	31	31	NEW YORK -----	YES	YES	48	210
CALIFORNIA-----	YES	YES	26	150	NORTH CAROLINA---	YES	YES	23	47
COLORADO-----	YES	YES	6	28	NORTH DAKOTA----	YES	YES	22	26
CONNECTICUT-----	YES	YES	6	24	OHIO-----	YES	YES	17	112
DELAWARE-----	YES	YES	1	4	OKLAHOMA-----	YES	YES	20	31
FLORIDA-----	YES	NO	9	22	OREGON-----	YES	YES	10	28
GEORGIA-----	YES	YES	30	40	PENNSYLVANIA 3/--	YES	YES	60	212
HAWAII 2/-----	YES	NO	1	1	PUERTO RICO-----	YES	YES	1	24
HAWAII-----	YES	YES	28	47	RHODE ISLAND----	YES	NO	3	3
ILLINOIS-----	YES	YES	44	87	SOUTH CAROLINA---	YES	YES	11	21
INDIANA-----	YES	YES	46	96	SOUTH DAKOTA----	YES	YES	17	18
IOWA-----	YES	YES	53	104	TENNESSEE-----	YES	NO	42	50
KANSAS-----	YES	YES	43	55	TEXAS-----	YES	NO	44	70
KENTUCKY-----	YES	YES	36	63	UTAH-----	YES	YES	17	21
LOUISIANA-----	YES	YES	14	37	VERMONT 3/-----	YES	YES	22	58
MAINE-----	YES	YES	12	47	VIRGIN ISLANDS---	YES	YES	1	1
MARYLAND-----	YES	YES	11	35	VIRGINIA-----	YES	YES	37	61
MASSACHUSETTS----	YES	YES	7	21	WASHINGTON-----	YES	YES	17	77
MICHIGAN-----	YES	YES	1	89	WEST VIRGINIA----	YES	YES	8	19
MINNESOTA-----	YES	YES	74	212	WISCONSIN-----	YES	YES	33	375
MISSISSIPPI-----	NO	NO	24	33	WYOMING 3/-----	YES	NO	8	8
MISSOURI-----	YES	YES	41	76					
MONTANA 3/-----	YES	YES	7	9	NATIONAL				
NEBRASKA-----	YES	YES	31	44	COOPERATIVE				
NEVADA-----	YES	YES	4	5	DAI PROGRAM----	50	43	1,084	2,916

1/ INCLUDES PUERTO RICO AND VIRGIN ISLANDS.

2/ DATA FOR JANUARY 1, 1978; NONE REPORTED FOR JANUARY 1, 1982.

3/ DATA FOR JANUARY 1, 1981; NONE REPORTED FOR JANUARY 1, 1982.

TABLE 2.--PERCENTAGE OF COWS ENROLLED IN THE NATIONAL COOPERATIVE DAIRY HERD IMPROVEMENT PROGRAM BY STATE COW POPULATION RANGE, JANUARY 1, 1982

STATE 1/ BY COW POPULATION RANGE	COW POPULATION 2/ THOUSANDS	STATE RANKING 3/	COWS ENROLLED PCT
OVER 500,000			
CALIFORNIA-----	940	7	60.7
NEW YORK-----	921	23	46.1
PENNSYLVANIA-----	730	24	45.4
WISCONSIN-----	1,830	25	45.3
MINNESOTA-----	905	33	38.1
200,001-500,000			
WASHINGTON-----	207	13	53.6
MICHIGAN-----	396	21	47.0
OHIO-----	382	31	38.2
ILLINOIS-----	234	35	37.3
INDIANA-----	207	37	35.6
IOWA-----	389	39	34.8
TENNESSEE-----	215	43	32.1
TEXAS-----	325	44	29.7
MISSOURI-----	245	45	29.4
KENTUCKY-----	240	51	18.3
100,001-200,000			
NORTH CAROLINA-----	133	10	58.2
VIRGINIA-----	170	11	56.0
MARYLAND-----	122	16	50.1
KANSAS-----	124	19	48.0
GEORGIA-----	131	20	47.8
VERMONT-----	187	28	41.8
IDAHO-----	168	32	38.2
FLORIDA-----	190	34	37.6
LOUISIANA-----	102	38	35.5
NEBRASKA-----	122	40	33.1
PUERTO RICO-----	108	41	33.0
OKLAHOMA-----	110	46	25.7
SOUTH DAKOTA-----	155	47	24.2
50,001-100,000			
ARIZONA-----	79	4	66.3
OREGON-----	97	5	62.7
NEW MEXICO-----	55	6	61.7
UTAH-----	86	12	54.0
COLORADO-----	75	15	50.2
MAINE-----	58	17	48.6
ALABAMA-----	63	26	43.8
MISSISSIPPI-----	97	42	32.9
ARKANSAS-----	84	49	21.1
NORTH DAKOTA-----	92	52	14.9
50,000 OR UNDER			
VIRGIN ISLANDS-----	1	1	88.0
NEVADA-----	16	2	76.9
SOUTH CAROLINA-----	48	3	70.5
HAWAII-----	13	8	60.1
CONNECTICUT-----	47	9	59.4
NEW HAMPSHIRE-----	30	14	53.5
DELAWARE-----	10	18	48.4
MASSACHUSETTS-----	45	22	46.8
NEW JERSEY-----	41	27	43.2
WEST VIRGINIA-----	36	29	41.4
MONTANA-----	29	30	38.8
RHODE ISLAND-----	4	36	36.0
WYOMING-----	12	48	23.0
ALASKA-----	1	50	21.0
NCDHIP TOTAL-----	11,107	--	----

1/ INCLUDES PUERTO RICO AND VIRGIN ISLANDS.

2/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982, EXCEPT DATA FOR PUERTO RICO AND VIRGIN ISLANDS, WHICH WERE ESTIMATED FROM OTHER SOURCES.

3/ HIGHEST PERCENTAGE OF COWS ENROLLED EQUALS 1.

TABLE 3.--ENROLLMENT BY PLAN AND STATE FOR DAIRY COWS, JANUARY 1, 1982

STATE 1/	ALL MILK COWS 2/	OFFICIAL PLANS		COWS IN OFFICIAL PLANS	NONOFFICIAL PLANS		COWS IN NONOFFICIAL PLANS	ALL TESTING PLANS		COWS IN ALL PLANS
		HEIFERS	COWS		HEIFERS	COWS		HEIFERS	COWS	
	THOUSANDS	NUMBER	NUMBER	PCT	NUMBER	NUMBER	PCT	NUMBER	NUMBER	PCT
ALABAMA-----	63	218	26,425	41.9	12	1,198	1.9	230	27,623	43.8
ALASKA-----	1	1	62	5.0	2	169	15.4	3	231	21.0
ARIZONA-----	19	127	50,954	64.5	0	1,395	1.8	133	52,349	66.3
ARKANSAS-----	84	203	13,387	15.9	45	4,324	5.1	248	17,711	21.1
CALIFORNIA-----	940	1,307	485,765	51.7	193	84,354	9.0	1,500	570,119	60.7
CONNECTICUT-----	75	256	33,590	44.8	23	4,092	5.5	279	37,682	50.2
DELAWARE-----	47	301	23,958	51.1	46	3,940	8.4	347	27,938	59.4
ILLINOIS-----	10	49	4,434	44.3	4	405	4.0	53	4,839	48.4
FLORIDA-----	190	77	21,695	11.5	118	49,507	26.1	195	71,402	37.6
GEORGIA-----	131	341	41,903	32.0	122	20,729	15.8	463	62,632	47.8
HAWAII-----	13	8	4,014	30.9	6	3,803	29.3	14	7,817	60.1
IDAH0-----	168	546	56,814	33.8	48	7,332	4.4	594	64,146	38.2
ILLINOIS-----	234	1,280	75,210	32.1	247	12,144	5.2	1,527	87,354	37.3
INDIANA-----	207	969	59,655	28.8	258	13,946	6.7	1,227	73,605	35.6
IOWA-----	389	1,485	76,680	19.7	1,248	58,553	15.1	2,731	135,233	34.8
KANSAS-----	124	785	53,992	43.5	110	5,531	4.5	895	59,523	48.0
KENTUCKY-----	240	560	36,420	15.2	94	7,385	3.1	654	43,805	18.3
LOUISIANA-----	102	322	31,898	31.3	40	4,357	4.3	362	36,255	35.5
MAINE-----	56	462	24,148	41.6	49	4,055	7.0	511	28,203	48.6
MARYLAND-----	122	661	57,589	47.2	55	3,521	2.9	716	61,110	50.1
MASSACHUSETTS-----	45	346	19,928	44.3	23	1,136	2.5	369	21,064	46.8
MICHIGAN-----	396	1,607	130,146	32.9	886	55,794	14.1	2,493	185,940	47.0
MINNESOTA-----	565	4,554	236,638	26.1	2,577	108,074	11.9	7,131	344,712	38.1
MISSISSIPPI-----	57	303	29,537	30.5	26	2,336	2.4	329	31,873	32.9
MISSOURI-----	245	911	61,289	25.0	200	10,644	4.3	1,111	71,933	29.4
MONTANA-----	29	113	9,574	33.0	11	1,687	5.8	124	11,261	38.8
NEBRASKA-----	122	515	35,923	29.4	70	4,447	3.6	585	40,370	33.1
NEVADA-----	16	39	11,601	72.5	7	711	4.4	46	12,312	76.9
NEW HAMPSHIRE-----	30	229	13,654	45.5	39	2,391	8.0	268	16,045	53.5
NEW JERSEY-----	41	156	14,892	36.3	44	2,812	6.9	240	17,704	43.2
NEW MEXICO-----	55	64	32,532	59.1	8	1,395	2.5	72	33,927	61.7
NEW YORK-----	921	3,101	217,185	23.6	3,400	207,148	22.5	6,501	424,333	46.1
NORTH CAROLINA-----	133	656	72,003	54.1	55	5,356	4.0	711	77,359	58.2
NORTH DAKOTA-----	92	176	11,280	12.3	40	2,415	2.6	218	13,695	14.9
OHIO-----	382	1,708	107,798	28.2	758	38,101	10.0	2,466	145,899	38.2
OKLAHOMA-----	110	346	25,700	23.4	39	2,573	2.3	385	28,273	25.7
OREGON-----	57	411	48,815	50.3	91	11,980	12.4	502	60,795	62.7
PENNSYLVANIA-----	130	3,957	226,100	31.2	2,143	103,285	14.1	6,100	331,385	45.4
PUERTO RICO-----	166	192	35,589	33.0	0	0	0.0	192	35,589	33.0
RHODE ISLAND-----	4	25	1,405	36.0	0	0	0.0	25	1,405	36.0
SOUTH CAROLINA-----	48	231	31,662	66.0	19	2,169	4.5	250	33,831	70.5
SOUTH DAKOTA-----	155	296	16,937	12.2	350	18,575	12.0	646	37,512	24.2
TENNESSEE-----	215	740	65,691	30.6	34	3,247	1.5	774	68,938	32.1
TEXAS-----	325	697	89,092	27.4	50	7,288	2.2	747	96,380	29.7
UTAH-----	80	376	42,935	49.9	29	3,546	4.1	405	46,481	54.0
VERMONT-----	187	1,090	61,991	33.2	299	16,267	8.7	1,389	78,258	41.8
VIRGIN ISLANDS-----	1	0	0	0.0	4	528	88.0	4	528	88.0
VIRGINIA-----	170	961	52,952	54.7	41	2,326	1.4	1,022	95,280	56.0
WASHINGTON-----	207	687	55,455	46.1	101	15,440	7.5	788	110,895	53.6
WEST VIRGINIA-----	36	164	14,462	40.2	10	427	1.2	194	14,889	41.4
WISCONSIN-----	1,830	6,216	344,758	18.8	10,858	484,223	26.5	17,074	828,981	45.3
WYOMING-----	12	26	2,616	21.8	2	140	1.2	30	2,756	23.0
NOCHIP TOTAL-----	11,107	40,933	3,382,977	30.5	24,940	1,407,203	12.7	65,873	4,790,180	43.1

1/ INCLUDES PUERTO RICO AND VIRGIN ISLANDS.

2/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVEO, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982, EXCEPT DATA FOR PUERTO RICO AND VIRGIN ISLANDS, WHICH WERE ESTIMATED FROM OTHER SOURCES.

TABLE 4.--CHANGES IN ENROLLMENT BY CATEGORY OF PLAN AND STATE FOR DAIRY COWS, 1981-82

STATE 1/	OFFICIAL PLANS		NONOFFICIAL PLANS		ALL TESTING PLANS	
	CHANGE IN HERDS	CHANGE IN CCWS	CHANGE IN HERDS	CHANGE IN CCWS	CHANGE IN HERDS	CHANGE IN CCWS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ALABAMA-----	0	-430	-2	-217	-2	-653
ALASKA-----	0	3	-3	-191	-3	-188
ARIZONA-----	6	2,054	1	282	7	2,336
ARKANSAS-----	13	1,977	-5	-403	8	1,509
CALIFORNIA-----	49	26,186	7	1,991	56	28,177
COLORADO-----	17	4,528	-1	265	16	4,793
CONNECTICUT-----	-14	270	0	243	-14	513
DELAWARE-----	-2	44	0	-12	-2	32
FLORIDA-----	12	3,707	11	11,293	23	15,000
GEORGIA-----	9	1,396	11	2,005	20	3,401
HAWAII-----	-2	-1,900	2	1,837	0	-63
IDAH0-----	35	6,221	-4	394	31	6,615
ILLINOIS-----	77	6,036	18	1,125	95	7,161
INDIANA-----	9	2,433	5	708	14	3,141
IOWA-----	-30	1,715	222	12,215	192	13,930
KANSAS-----	32	3,810	6	393	38	4,203
KENTUCKY-----	5	720	19	782	24	1,508
LOUISIANA-----	13	1,149	-5	510	8	1,665
MAINE-----	32	562	-1	425	31	1,007
MARYLAND-----	11	1,599	5	3	16	1,602
MASSACHUSETTS---	10	500	0	-103	10	472
MICHIGAN-----	80	13,733	43	4,389	123	18,122
MINNESOTA-----	321	21,836	193	11,099	519	32,935
MISSISSIPPI-----	20	3,496	1	84	21	3,580
MISSOURI-----	83	5,805	26	1,587	109	7,392
MONTANA-----	5	237	8	1,321	13	1,558
NEBRASKA-----	36	3,669	15	957	51	4,626
NEVADA-----	-2	810	6	619	4	1,429
NEW HAMPSHIRE---	6	331	-6	106	0	437
NEW JERSEY-----	-3	102	10	586	7	748
NEW MEXICO-----	10	4,464	0	-48	10	4,416
NEW YORK-----	-275	-9,671	258	20,374	-17	10,703
NORTH CAROLINA---	3	2,209	-4	205	-1	2,414
NORTH DAKOTA-----	-1	607	9	436	8	1,103
OHIO-----	-52	-933	82	6,758	30	5,825
OKLAHOMA-----	-27	-1,552	13	1,013	-14	-539
OREGON-----	15	3,992	39	7,027	54	11,019
PENNSYLVANIA-----	133	10,365	203	10,176	336	20,541
PUERTO RICO-----	20	3,007	0	0	20	3,007
RHODE ISLAND-----	-2	5	0	0	-2	5
SOUTH CAROLINA---	9	1,157	3	389	12	1,546
SOUTH DAKOTA-----	48	3,574	15	1,380	63	5,354
TENNESSEE-----	50	3,756	-4	-201	46	3,555
TEXAS-----	102	16,388	-11	-1,993	91	14,395
UTAH-----	31	4,465	5	154	36	4,619
VERMONT-----	28	1,099	-28	-1,546	0	-447
VIRGIN ISLANDS---	-3	-328	3	323	0	-5
VIRGINIA-----	38	3,688	4	143	42	3,831
WASHINGTON-----	-7	669	22	3,861	15	4,530
WEST VIRGINIA-----	0	242	2	146	2	388
WISCONSIN-----	462	25,066	295	21,836	757	46,902
WYOMING-----	-1	136	-4	-234	-5	-98
NOCHIP TOTAL-----	1,409	185,624	1,489	124,488	2,898	310,112

1/ INCLUDES PUERTO RICO AND VIRGIN ISLANDS.

TABLE 5.--ENROLLMENT IN THE OFFICIAL DAIRY HERD IMPROVEMENT PLAN, JANUARY 1, 1982

STATE	HEROS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 1/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
ALABAMA-----	28	-18	3,176	-2,468	63	5.0
ARIZONA-----	92	2	41,313	1,798	79	52.3
ARKANSAS-----	176	14	11,750	1,847	84	14.0
CALIFORNIA-----	1,062	5	398,071	3,613	940	42.3
COLORADO-----	205	17	27,540	4,429	75	36.7
CONNECTICUT-----	250	-16	20,439	-439	47	43.5
DELAWARE-----	39	-2	3,838	50	10	38.4
FLORIDA-----	11	4	3,923	723	190	2.1
GEORGIA-----	145	-16	15,283	-2,373	131	11.7
HAWAII-----	8	-2	4,014	-1,900	13	30.9
IDAHO-----	500	22	51,515	3,651	168	30.7
ILLINOIS-----	856	-11	48,665	129	234	20.8
INDIANA-----	786	0	48,297	1,605	207	23.3
IOWA-----	1,208	-65	62,370	-810	389	16.0
KANSAS-----	680	9	46,123	1,855	124	37.2
KENTUCKY-----	449	-35	29,461	-1,437	240	12.3
LOUISIANA-----	53	-42	4,953	-4,182	102	4.9
MAINE-----	393	24	20,377	150	58	35.1
MARYLAND-----	597	10	49,638	1,335	122	40.7
MASSACHUSETTS-----	293	5	16,829	432	45	37.4
MICHIGAN-----	1,463	67	119,161	12,238	396	30.1
MINNESOTA-----	3,598	-79	164,411	-515	905	20.4
MISSISSIPPI-----	17	-4	1,519	-659	97	1.6
MISSOURI-----	663	10	43,223	949	245	17.6
MONTANA-----	95	5	8,350	916	29	28.8
NEBRASKA-----	431	-3	29,125	575	122	23.9
NEVADA-----	23	-6	7,878	-1,216	16	49.2
NEW HAMPSHIRE-----	192	1	10,646	-231	30	35.5
NEW JERSEY-----	162	-5	12,096	-167	41	29.5
NEW MEXICO-----	48	13	24,521	5,362	55	44.6
NEW YORK-----	2,718	-304	191,978	-13,157	921	20.8
NORTH CAROLINA-----	108	15	12,093	1,521	133	9.1
NORTH DAKOTA-----	128	-24	7,857	-1,111	92	8.5
OHIO-----	1,375	-10	86,702	947	382	22.7
OKLAHOMA-----	247	-40	17,998	-3,095	110	16.4
OREGON-----	331	13	41,177	3,269	97	42.5
PENNSYLVANIA-----	3,737	86	214,012	7,406	730	29.3
RHODE ISLAND-----	18	-2	1,079	10	4	27.7
SOUTH CAROLINA-----	53	4	7,172	571	48	14.9
SOUTH DAKOTA-----	162	-1	10,883	336	155	7.0
TENNESSEE-----	84	-548	8,002	-48,368	215	3.7
TEXAS-----	151	-23	19,625	-1,991	325	6.0
UTAH-----	336	21	36,320	3,652	86	42.2
VERMONT-----	952	22	54,648	486	187	29.2
VIRGINIA-----	797	14	70,958	301	170	41.7
WASHINGTON-----	560	-11	79,496	1,993	207	38.4
WEST VIRGINIA-----	166	-2	12,661	10	36	35.2
WISCONSIN-----	5,178	327	287,078	16,367	1,830	15.7
WYOMING-----	23	-1	2,217	139	12	18.5
NCOHIP TOTAL-----	31,647	-560	2,510,461	-5,254	11,107	22.6

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 6.--ENROLLMENT IN THE OFFICIAL DHI AM-PM WITH MONITORING DEVICE PLAN, JANUARY 1, 1982

STATE	HEROS	CHANGE IN HEROS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 1/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
ARKANSAS-----	4	4	287	287	84	0.3
CALIFORNIA-----	39	31	24,002	17,366	940	2.6
COLORADO-----	0	-1	0	-605	75	0.0
IDAHO-----	1	1	149	149	168	0.1
ILLINOIS-----	219	82	14,003	5,337	234	6.0
INDIANA-----	1	1	58	58	207	0.0
IOWA-----	52	8	2,857	417	389	0.7
KANSAS-----	20	19	1,730	1,664	124	1.4
LOUISIANA-----	3	0	406	-4	102	0.4
MARYLAND-----	1	-10	159	-873	122	0.1
MICHIGAN-----	1	0	68	-20	396	0.0
MINNESOTA-----	648	364	35,294	19,671	905	3.9
MISSOURI-----	13	9	1,087	785	245	0.4
MONTANA-----	0	-2	0	-807	29	0.0
NEBRASKA-----	37	35	3,009	2,659	122	2.5
NEVADA-----	4	3	1,838	1,573	16	11.5
NEW HAMPSHIRE----	2	2	482	482	30	1.6
NORTH DAKOTA----	23	13	2,054	1,336	92	2.2
OHIO-----	21	-52	2,163	-3,348	382	0.6
OKLAHOMA-----	12	8	1,153	880	110	1.0
OREGON-----	0	-1	0	-309	97	0.0
PENNSYLVANIA----	31	14	2,370	955	730	0.3
SOUTH DAKOTA----	109	47	6,836	3,420	155	4.4
TEXAS-----	1	0	136	54	325	0.0
NCOHIP TOTAL-----	1,242	575	100,141	51,127	11,107	0.9

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVEO, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 7.--ENROLLMENT IN THE OFFICIAL DHI WITH ALTERNATE AM-PM COMPONENT SAMPLING PLAN, JANUARY 1, 1982

STATE 1/	HERDS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 2/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
ALABAMA-----	173	17	21,012	1,525	63	33.4
FLORIDA-----	63	8	14,782	1,249	190	7.8
GEORGIA-----	160	23	21,231	3,588	131	16.2
IDAHO-----	17	17	2,253	2,253	168	1.3
ILLINOIS-----	26	8	1,349	446	234	0.6
INDIANA-----	28	-1	2,402	21	207	1.2
IOWA-----	14	0	517	91	389	0.1
KANSAS-----	10	2	1,388	177	124	1.1
KENTUCKY-----	43	36	2,658	2,070	240	1.1
LOUISIANA-----	238	49	23,627	4,684	102	23.2
MINNESOTA-----	3	3	953	234	905	0.1
MISSISSIPPI-----	259	18	24,631	2,726	97	25.4
MISSOURI-----	145	56	11,298	3,651	245	4.6
NEW MEXICO-----	8	-3	4,413	-837	55	8.0
NEW YORK-----	9	9	1,147	1,147	921	0.1
NORTH CAROLINA---	505	-22	55,224	-406	133	41.5
NORTH DAKOTA----	16	11	805	530	92	0.9
OHIO-----	3	-1	0	-60	382	0.0
OKLAHOMA-----	32	5	2,098	292	110	1.9
PUERTO RICO-----	192	20	35,589	3,007	108	33.0
SOUTH CAROLINA---	135	6	17,949	-75	48	37.4
TENNESSEE-----	595	595	51,695	51,695	215	24.0
TEXAS-----	470	113	60,922	17,178	325	18.7
UTAH-----	4	1	1,269	-110	86	1.5
VIRGIN ISLANDS---	0	-3	0	-328	1	0.0
VIRGINIA-----	115	23	13,981	2,954	170	8.2
WASHINGTON-----	3	0	1,762	279	207	0.9
NCOHIP TOTAL----	3,265	996	374,955	97,981	11,107	3.4

1/ INCLUDES PUERTO RICO AND VIRGIN ISLANDS.

2/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982, EXCEPT DATA FOR PUERTO RICO AND VIRGIN ISLANDS, WHICH WERE ESTIMATED FROM OTHER SOURCES.

TABLE 8.--ENROLLMENT IN THE OFFICIAL DAIRY HERD IMPROVEMENT REGISTRY PLAN, JANUARY 1, 1982

STATE	HERDS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 1/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
ALABAMA-----	7	0	716	111	63	1.1
ALASKA-----	1	0	62	3	1	5.6
ARIZONA-----	35	4	9,641	256	79	12.2
ARKANSAS-----	23	-5	1,350	-157	84	1.6
CALIFORNIA-----	206	13	63,692	5,207	940	6.8
COLORADO-----	51	1	6,050	704	75	8.1
CONNECTICUT-----	51	2	3,559	709	47	7.6
DELAWARE-----	10	0	596	-6	10	6.0
FLORIDA-----	0	-1	0	-55	190	0.0
GEORGIA-----	30	-1	4,231	-611	131	3.2
IDAH0-----	28	-5	2,897	-32	168	1.7
ILLINOIS-----	173	-2	10,796	90	234	4.6
INDIANA-----	154	9	8,902	749	207	4.3
IOWA-----	207	21	10,777	2,030	389	2.8
KANSAS-----	75	2	4,751	114	124	3.8
KENTUCKY-----	68	4	4,301	93	240	1.8
LOUISIANA-----	14	0	1,447	-14	102	1.4
MAINE-----	68	8	3,549	436	58	6.1
MARYLAND-----	63	11	7,792	1,137	122	6.4
MASSACHUSETTS-----	53	5	3,099	148	45	6.9
MICHIGAN-----	143	13	10,917	1,515	396	2.8
MINNESOTA-----	300	34	15,980	2,454	905	1.8
MISSISSIPPI-----	14	5	1,968	1,100	97	2.0
MISSOURI-----	88	7	5,528	348	245	2.3
MONTANA-----	18	2	1,224	128	29	4.2
NEBRASKA-----	47	4	3,769	435	122	3.1
NEVADA-----	12	1	1,885	453	16	11.8
NEW HAMPSHIRE-----	34	2	2,300	-146	30	7.7
NEW JERSEY-----	34	2	2,796	329	41	6.8
NEW MEXICO-----	8	0	3,598	-61	55	6.5
NEW YORK-----	374	20	24,060	2,339	921	2.6
NORTH CAROLINA-----	32	8	3,374	727	133	2.5
NORTH DAKOTA-----	11	-1	564	-88	92	0.6
OHIO-----	312	11	18,933	1,528	382	5.0
OKLAHOMA-----	55	0	4,451	371	110	4.0
OREGON-----	80	4	7,638	1,061	97	7.9
PENNSYLVANIA-----	169	33	11,718	2,004	730	1.6
RHODE ISLAND-----	7	0	326	-5	4	8.4
SOUTH CAROLINA-----	19	-2	2,400	-266	48	5.0
SOUTH DAKOTA-----	25	4	1,218	286	155	0.8
TENNESSEE-----	36	-22	3,586	-1,979	215	1.7
TEXAS-----	63	2	7,120	353	325	2.2
UTAH-----	36	9	5,346	923	86	6.2
VERMONT-----	138	6	7,343	613	187	3.9
VIRGINIA-----	69	1	8,013	433	170	4.7
WASHINGTON-----	124	16	14,197	1,075	207	6.9
WEST VIRGINIA-----	18	2	1,801	232	36	5.0
WISCONSIN-----	1,038	135	57,680	3,699	1,830	3.2
WYOMING-----	5	0	399	-3	12	3.3
NCDHIP TOTAL-----	4,646	362	378,360	35,770	11,107	3.4

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USCA) IN "CATTLE," JANUARY 1982.

TABLE 9.--ENROLLMENT IN THE OFFICIAL DHIR AM-PM WITH MONITORING DEVICE PLAN, JANUARY 1, 1982

STATE	HERDS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 1/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
MAINE-----	1	0	222	-4	58	0.4
MINNESOTA-----	0	-1	0	-8	905	0.0
NEW HAMPSHIRE----	1	1	226	226	30	0.8
OREGON-----	0	-1	0	-29	97	0.0
SOUTH DAKOTA-----	0	-2	0	-68	155	0.0
WASHINGTON-----	0	-12	0	-2,678	207	0.0
NCDHIP TOTAL----	2	-15	448	-2,561	11,107	0.0

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 10.--ENROLLMENT IN THE OFFICIAL DHIR WITH ALTERNATE AM-PM COMPONENT SAMPLING PLAN, JANUARY 1, 1982

STATE	HERDS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 1/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
ALABAMA-----	10	1	1,521	396	63	2.4
FLORIDA-----	6	1	3,190	1,790	190	2.5
GEORGIA-----	6	3	1,158	792	131	4.5
ILLINOIS-----	6	0	397	34	234	2.7
IOWA-----	2	0	159	-13	389	1.7
LOUISIANA-----	14	0	1,465	665	102	7.7
MISSISSIPPI-----	13	1	1,419	329	97	9.6
MISSOURI-----	2	1	153	72	245	3.9
NORTH CAROLINA----	11	2	1,312	367	133	8.1
SOUTH CAROLINA----	24	1	4,141	927	48	31.1
TENNESSEE-----	25	25	2,408	2,408	215	8.1
TEXAS-----	12	10	1,289	794	325	5.7
NCDHIP TOTAL----	131	51	18,612	8,561	11,107	0.2

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 11.--ENROLLMENT IN THE OWNER-SAMPLER PLAN, JANUARY 1, 1982

STATE	HERDS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 1/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
ALABAMA-----	3	0	147	-32	63	0.2
ALASKA-----	2	-3	169	-191	1	15.4
ARKANSAS-----	36	-10	3,506	-812	84	4.2
CALIFORNIA-----	28	4	2,940	-291	940	0.3
COLORADO-----	4	0	297	63	75	0.4
CONNECTICUT-----	15	-5	465	-106	47	1.0
FLORIDA-----	2	1	146	74	190	0.1
GEORGIA-----	3	-6	174	-325	131	0.1
HAWAII-----	2	0	1,524	-24	13	11.7
IDAHO-----	36	-7	2,559	1,050	166	3.3
ILLINOIS-----	160	10	7,277	540	234	3.1
INDIANA-----	147	21	7,243	1,420	207	3.5
IOWA-----	538	-40	23,169	-891	389	6.0
KANSAS-----	100	3	5,097	303	124	4.1
KENTUCKY-----	26	5	1,570	46	240	0.7
LOUISIANA-----	1	1	1	1	102	0.0
MAINE-----	25	-2	1,059	182	58	1.8
MARYLAND-----	41	2	2,462	255	122	2.0
MASSACHUSETTS-----	19	0	645	-85	45	1.4
MICHIGAN-----	739	28	41,920	3,339	396	10.6
MINNESOTA-----	1,797	-174	71,852	-5,911	905	7.9
MISSISSIPPI-----	0	-4	0	-464	97	0.0
MISSOURI-----	186	21	9,519	1,307	245	3.9
MONTANA-----	8	5	855	489	29	2.9
NEBRASKA-----	45	6	3,124	464	122	2.6
NEVADA-----	1	1	217	217	16	1.4
NEW HAMPSHIRE-----	23	-10	1,059	-376	30	3.5
NEW JERSEY-----	11	4	446	207	41	1.1
NEW MEXICO-----	1	-3	104	-518	55	0.2
NEW YORK-----	871	5	42,236	534	921	4.6
NORTH CAROLINA-----	2	-16	164	-973	133	0.1
NORTH DAKOTA-----	19	2	1,474	194	92	1.6
OHIO-----	660	0	31,507	1,257	382	8.2
OKLAHOMA-----	20	3	999	169	110	0.9
OREGON-----	33	8	2,556	987	97	2.6
PENNSYLVANIA-----	809	48	32,602	-2,749	730	4.5
SOUTH CAROLINA-----	1	-1	54	-94	48	0.1
SOUTH DAKOTA-----	186	-59	9,429	-2,396	155	6.1
TENNESSEE-----	2	-1	286	49	215	0.1
TEXAS-----	11	-13	1,154	-1,746	325	0.4
UTAH-----	15	6	1,307	642	86	1.5
VERMONT-----	211	-49	10,235	-2,860	187	5.5
VIRGINIA-----	30	2	1,453	-31	170	0.9
WASHINGTON-----	37	0	2,937	707	207	1.4
WEST VIRGINIA-----	10	3	427	176	36	1.2
WISCONSIN-----	9,452	55	408,414	8,672	1,830	22.3
WYOMING-----	2	0	140	-5	12	1.2
NOCHIP TOTAL-----	16,370	-159	739,940	2,470	11,107	6.7

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 12.--ENROLLMENT IN THE OWNER-SAMPLER AM-PM PLAN, JANUARY 1, 1982

STATE	HERDS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 1/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
ARKANSAS-----	5	5	400	400	84	0.5
DELAWARE-----	4	4	405	405	10	4.0
FLORIDA-----	0	-6	0	-2,569	190	0.0
IDAHO-----	1	-3	63	-216	168	0.0
ILLINOIS-----	38	8	1,702	260	234	0.7
INDIANA-----	14	7	1,007	562	207	0.5
IOWA-----	185	51	8,632	2,291	389	2.2
KANSAS-----	3	3	81	81	124	0.1
KENTUCKY-----	0	-1	0	-170	240	0.0
LOUISIANA-----	3	-2	142	-273	102	0.1
MAINE-----	5	3	323	228	58	0.6
MICHIGAN-----	8	5	532	343	396	0.1
MINNESOTA-----	772	370	35,236	10,894	905	3.9
MISSOURI-----	12	5	562	244	245	0.2
NEBRASKA-----	25	9	1,323	493	122	1.1
NEW HAMPSHIRE---	2	2	238	238	30	0.8
NEW YORK-----	251	57	13,867	2,579	921	1.5
NORTH DAKOTA---	7	7	305	305	92	0.3
OHIO-----	11	1	701	30	382	0.2
OKLAHOMA-----	2	0	70	-26	110	0.1
OREGON-----	0	-1	0	-44	97	0.0
PENNSYLVANIA---	204	15	10,244	6,057	730	1.4
SOUTH DAKOTA---	118	66	6,288	3,341	155	4.1
TEXAS-----	1	-1	394	-65	325	0.1
VERMONT-----	11	5	696	296	187	0.4
WASHINGTON-----	2	1	647	511	207	0.3
WISCONSIN-----	1,381	246	73,744	13,387	1,830	4.0
NCOHIP TOTAL----	3,065	830	157,602	45,582	11,107	1.4

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 13.--ENROLLMENT IN THE OWNER-SAMPLER WITH ALTERNATE AM-PM COMPONENT SAMPLING PLAN, JANUARY 1, 1982

STATE	HERDS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 1/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
ALABAMA-----	1	1	52	52	63	0.1
CONNECTICUT-----	1	1	467	467	47	1.0
GEORGIA-----	3	3	445	445	131	0.3
INDIANA-----	2	2	151	151	207	0.1
KENTUCKY-----	5	5	319	319	240	0.1
LOUISIANA-----	1	1	119	119	102	0.1
MISSISSIPPI-----	5	5	413	413	97	0.4
NEW YORK-----	10	10	746	746	921	0.1
NORTH CAROLINA---	15	15	882	882	133	0.7
SOUTH CAROLINA---	1	1	45	45	48	0.1
TENNESSEE-----	1	1	14	14	215	0.0
TEXAS-----	8	8	627	627	325	0.2
NCOHIP TOTAL----	53	53	4,280	4,280	11,107	0.0

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 14.--ENROLLMENT IN THE OWNER-SAMPLER MILK-ONLY-RECORDS PLAN, JANUARY 1, 1982.

STATE	HERDS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 1/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
ALABAMA-----	1	-1	272	-126	63	0.4
CONNECTICUT-----	8	1	754	39	47	1.6
FLORIDA-----	18	6	9,738	3,779	190	5.1
GEORGIA-----	31	-7	5,519	-1,452	131	4.2
INDIANA-----	1	-1	59	-621	207	0.0
KENTUCKY-----	3	2	119	16	240	0.0
LOUISIANA-----	3	2	216	119	102	0.2
MAINE-----	15	2	1,472	149	58	2.5
MASSACHUSETTS-----	3	0	338	14	45	0.8
MICHIGAN-----	75	75	6,630	6,630	396	1.7
MINNESOTA-----	5	5	682	682	905	0.1
NEW HAMPSHIRE-----	4	-1	439	-122	30	1.5
NEW JERSEY-----	3	0	320	36	41	0.8
NEW YORK-----	76	-15	8,805	-761	921	1.0
NORTH CAROLINA-----	14	-1	1,224	-192	133	0.9
PENNSYLVANIA-----	6	6	576	576	730	0.1
SOUTH CAROLINA-----	4	0	378	51	48	0.8
TEXAS-----	7	-7	1,314	-1,206	325	0.4
VERMONT-----	5	2	410	145	187	0.2
VIRGINIA-----	1	0	51	-8	170	0.0
WEST VIRGINIA-----	0	-1	0	-30	36	0.0
WISCONSIN-----	25	25	2,065	2,065	1,830	0.1
NCDHIP TOTAL-----	328	92	41,381	9,783	11,107	0.4

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 15.--ENROLLMENT IN THE OWNER-SAMPLER AM-PM MILK-ONLY-RECORDS PLAN, JANUARY 1, 1982

STATE	HERDS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK CCWS 1/	CCWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
FLORIDA-----	4	4	2,136	2,136	190	1.1
GEORGIA-----	1	1	830	830	131	0.6
LOUISIANA-----	2	2	1,194	1,194	102	1.2
MAINE-----	2	-1	292	-301	58	0.5
MICHIGAN-----	3	3	489	489	396	0.1
MINNESOTA-----	3	3	304	304	905	0.0
NEW HAMPSHIRE-----	1	1	109	109	30	0.4
NEW YORK-----	58	11	4,571	1,146	921	0.5
VERMONT-----	4	4	359	359	187	0.2
NCDHIP TOTAL-----	78	28	10,284	6,266	11,107	0.1

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK CCWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 16.--ENROLLMENT IN THE OWNER-SAMPLER WITH AVERAGE (BREED OR PLANT) COMPONENTS USED PLAN, JANUARY 1, 1982

STATE	HERDS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 1/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
ALABAMA-----	4	-2	469	-132	63	0.7
GEORGIA-----	2	-2	163	-305	131	0.1
INDIANA-----	3	3	232	232	207	0.1
KENTUCKY-----	33	-4	3,129	-306	240	1.3
NORTH CAROLINA---	2	0	84	-20	133	0.1
SOUTH CAROLINA---	4	3	742	443	48	1.5
TEXAS-----	8	-1	1,820	-125	325	0.6
VIRGINIA-----	10	2	824	182	170	0.5
NCDHIP TOTAL----	66	-1	7,463	-31	11,107	0.1

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 17.--ENROLLMENT IN THE COMMERCIAL PLAN, JANUARY 1, 1982

STATE	HERDS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 1/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
ARIZONA-----	3	2	688	545	79	0.9
CALIFORNIA-----	161	0	78,282	-185	940	8.3
COLORADO-----	14	-3	2,424	-896	75	3.2
IDAHO-----	3	3	350	350	168	0.2
MARYLAND-----	2	-4	75	-764	122	0.1
NEVADA-----	4	4	145	145	16	0.9
NEW MEXICO-----	7	3	1,291	470	55	2.3
OHIO-----	1	1	264	264	382	0.1
OREGON-----	57	33	9,407	6,431	97	9.7
PENNSYLVANIA----	2	2	433	433	730	0.1
UTAH-----	12	1	2,044	-20	86	2.4
WASHINGTON-----	46	8	9,102	799	207	4.4
NCDHIP TOTAL----	312	50	104,509	7,572	11,107	0.9

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 18.--ENROLLMENT IN THE COMMERCIAL AM-PM PLAN, JANUARY 1, 1982

STATE	HEROS	CHANGE IN HEROS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 1/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
COLORADO-----	1	1	621	621	75	0.8
IDAHO-----	6	6	828	828	168	0.5
MARYLAND-----	9	9	773	773	122	0.6
MONTANA-----	3	3	832	832	29	2.9
NEVADA-----	1	1	258	258	16	1.6
OHIO-----	81	81	5,285	5,285	382	1.4
WASHINGTON-----	12	12	1,945	1,945	207	0.9
NCOHIP TOTAL-----	113	113	10,542	10,542	11,107	0.1

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 19.--ENROLLMENT IN THE SUPERVISED AM-PM PLAN, JANUARY 1, 1982

STATE	HEROS	CHANGE IN HEROS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 1/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
ARKANSAS-----	1	1	81	81	84	0.1
CALIFORNIA-----	4	4	3,132	3,132	940	0.3
CONNECTICUT-----	17	1	1,327	-372	47	2.8
DELAWARE-----	0	-4	0	-417	10	0.0
IDAHO-----	0	-3	0	-614	168	0.0
ILLINOIS-----	2	2	118	118	234	0.1
INDIANA-----	79	23	4,271	1,049	207	2.1
IOWA-----	514	211	25,798	10,987	389	6.6
MAINE-----	0	-3	0	-199	58	0.0
MICHIGAN-----	20	-1	1,608	-763	356	0.4
NEW HAMPSHIRE-----	3	3	249	249	30	0.3
NEW JERSEY-----	28	6	1,692	326	41	4.1
NEW YORK-----	2,099	213	134,941	16,465	921	14.7
OKLAHOMA-----	9	9	696	696	110	0.6
OREGON-----	1	-1	17	-347	97	0.0
PENNSYLVANIA-----	1,121	134	59,322	5,975	730	8.1
VERMONT-----	67	12	4,513	825	187	2.4
NCOHIP TOTAL-----	3,965	607	237,765	37,191	11,107	2.1

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 20.--ENROLLMENT IN THE SUPERVISED MILK-ONLY-RECCROS PLAN, JANUARY 1, 1982

STATE 1/	HERDS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 2/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
ARIZONA-----	3	3	707	707	79	0.9
ARKANSAS-----	3	-1	337	-77	84	0.4
COLORADO-----	4	4	746	746	75	1.0
CONNECTICUT-----	4	1	824	132	47	1.8
FLORIDA-----	93	6	37,157	7,867	190	19.6
GEORGIA-----	82	22	13,598	2,812	131	10.4
HAWAII-----	4	4	2,279	2,279	13	17.5
IDAHO-----	2	1	532	164	168	0.3
ILLINOIS-----	47	-2	3,047	207	234	1.3
INDIANA-----	2	0	472	114	207	0.2
IOWA-----	11	0	954	-172	389	0.2
KANSAS-----	7	0	353	9	124	0.3
KENTUCKY-----	13	12	1,075	990	240	0.4
MAINE-----	1	0	518	30	58	0.9
MARYLAND-----	3	3	211	211	122	0.2
MASSACHUSETTS-----	1	0	153	-37	45	0.3
MICHIGAN-----	18	-66	3,110	-5,743	396	0.8
MINNESOTA-----	0	-6	0	-870	905	0.0
MISSOURI-----	2	0	563	36	245	0.2
NEVADA-----	1	1	91	91	16	0.6
NEW HAMPSHIRE-----	1	0	132	16	30	0.4
NEW JERSEY-----	1	0	184	5	41	0.4
NEW YORK-----	2	1	292	233	921	0.0
NORTH CAROLINA-----	15	-2	2,365	492	133	1.8
NORTH DAKOTA-----	2	-1	106	-66	92	0.1
OHIO-----	5	5	344	344	382	0.1
OKLAHOMA-----	8	1	808	174	110	0.7
PENNSYLVANIA-----	0	-3	0	-224	730	0.0
SOUTH CAROLINA-----	6	-1	745	-123	48	1.6
SOUTH DAKOTA-----	46	8	2,858	435	155	1.8
TEXAS-----	13	2	1,784	445	325	0.5
UTAH-----	2	2	195	195	86	0.2
VIRGIN ISLANDS-----	4	3	528	323	1	88.0
WASHINGTON-----	4	4	809	809	207	0.4
WISCONSIN-----	0	-31	0	-2,288	1,830	0.0
NCDHIP TOTAL-----	410	-30	77,877	10,266	11,107	0.7

1/ INCLUDES VIRGIN ISLANDS.

2/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USOA) IN "CATTLE," JANUARY 1982, EXCEPT DATA FOR VIRGIN ISLANDS, WHICH WERE ESTIMATED FROM OTHER SOURCES.

TABLE 21.--ENROLLMENT IN THE SUPERVISED AM-PM MILK-ONLY-RECORDS PLAN, JANUARY 1, 1982

STATE	HERDS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 1/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
CONNECTICUT-----	1	1	83	83	47	0.2
MAINE-----	1	0	391	336	58	0.7
MICHIGAN-----	1	1	60	60	396	0.0
NEW JERSEY-----	1	0	170	12	41	0.4
NEW YORK-----	13	-4	1,690	-568	921	0.2
PENNSYLVANIA-----	1	1	108	108	730	0.0
VERMONT-----	1	-2	54	-311	187	0.0
NCDHIP TOTAL-----	19	-3	2,564	-272	11,107	0.0

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 22.--ENROLLMENT IN THE BASIC MANAGEMENT AND PRODUCTION PLAN, JANUARY 1, 1982

STATE	HERDS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/81	ALL MILK COWS 1/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
ALABAMA-----	3	0	258	21	63	0.4
FLORIDA-----	1	0	330	6	190	0.2
INDIANA-----	10	-50	511	-2,199	207	0.2
KENTUCKY-----	14	0	1,173	-113	240	0.5
LOUISIANA-----	30	-9	2,685	-644	102	2.6
MISSISSIPPI-----	21	0	1,923	135	97	2.0
NEW HAMPSHIRE-----	5	-1	165	-8	30	0.5
NORTH CAROLINA-----	7	0	637	16	133	0.5
SOUTH CAROLINA-----	3	1	205	67	48	0.4
TENNESSEE-----	31	-4	2,947	-264	215	1.4
TEXAS-----	2	1	195	77	325	0.1
NCDHIP TOTAL-----	127	-62	11,029	-2,906	11,107	0.1

1/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 23.--ENROLLMENT IN ALL OTHER NONOFFICIAL PLANS, JANUARY 1, 1982

STATE 1/	HERDS	CHANGE IN HERDS FROM 1/1/81	COWS	CHANGE IN COWS FROM 1/1/82	ALL MILK COWS 2/	COWS ENROLLED
	NUMBER	NUMBER	NUMBER	NUMBER	THOUSANDS	PCT
MICHIGAN----- (TMT)	22	-2	1,437	26	396	0.4
NORTH DAKOTA----- (WADAM)	12	12	530	530	92	0.6
NCDHIP TOTAL-----	34	10	1,967	556	11,107	0.0

1/ (TMT) = TRIMONTHLY TESTING; (WADAM) = WEIGH-A-DAY-A-MONTH.

2/ PRELIMINARY DATA FOR JANUARY 1, 1982, MILK COWS AND HEIFERS THAT HAVE CALVED, EXCLUDING HEIFERS NOT YET FRESH, ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) IN "CATTLE," JANUARY 1982.

TABLE 24.--ENROLLMENT BY CATEGORY OF PLAN AND STATE FOR DAIRY GOATS, JANUARY 1, 1982

STATE 1/	OFFICIAL DAIRY HERD IMPROVEMENT		DAIRY HERD IMPROVE- MENT REGISTRY		NONOFFICIAL PLANS		ALL TESTING PLANS		CHANGE IN HERDS FROM 1/1/81	CHANGE IN DOES FROM 1/1/81
	HERDS	DOES	HERDS	DOES	HERDS	DOES	HERDS	DOES		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ALABAMA-----	9	0	6	33	0	0	6	33	-1	-7
ARIZONA-----	2	10	51	380	0	0	53	390	-4	51
ARKANSAS-----	7	66	25	402	0	0	32	468	4	85
CALIFORNIA-----	24	319	264	3,163	2	39	290	3,521	-22	-465
COLORADO-----	6	35	43	211	0	0	49	246	-2	-58
CONNECTICUT-----	13	43	6	106	0	0	21	149	4	8
DELAWARE-----	6	21	1	3	0	0	7	24	3	9
FLORIDA-----	4	28	26	195	0	0	30	223	10	-3
GEORGIA-----	3	0	17	99	0	0	17	99	0	27
HAWAII-----	5	24	23	151	0	0	28	175	20	81
ILLINOIS-----	1	16	20	161	1	3	22	180	9	49
INDIANA-----	1	9	9	64	0	0	10	73	-2	-17
IOWA-----	6	79	11	90	2	8	19	177	2	25
KANSAS-----	5	36	17	82	0	0	26	118	6	14
KENTUCKY-----	1	10	0	0	0	0	1	10	0	9
LOUISIANA-----	5	16	5	42	0	0	10	58	4	25
MAINE-----	39	218	0	68	0	0	47	286	0	-111
MARYLAND-----	11	226	0	0	0	0	11	226	0	29
MASSACHUSETTS-----	20	111	1	2	0	0	21	113	-1	-26
MICHIGAN-----	11	54	33	223	2	7	46	264	16	45
MINNESOTA-----	1	7	15	174	2	16	18	197	0	24
MISSISSIPPI-----	0	0	1	7	0	0	1	7	1	7
MISSOURI-----	14	187	17	242	3	44	34	473	6	67
MONTANA-----	0	0	14	63	0	0	14	63	5	33
NEBRASKA-----	1	13	2	14	1	27	4	54	0	41
NEVADA-----	19	124	0	0	0	0	19	124	6	30
NEW HAMPSHIRE-----	15	88	7	74	0	0	22	162	1	21
NEW JERSEY-----	23	148	10	117	0	0	33	265	18	8
NEW MEXICO-----	5	155	13	101	0	0	18	256	1	138
NEW YORK-----	77	418	30	232	1	33	108	683	38	188
NORTH CAROLINA-----	0	0	5	63	0	0	9	63	-4	-52
NORTH DAKOTA-----	0	0	2	15	0	0	2	15	1	6
OHIO-----	4	57	57	432	2	19	63	508	5	24
OKLAHOMA-----	12	98	21	281	0	0	33	379	7	37
OREGON-----	23	213	193	1,618	0	0	216	1,831	41	562
PENNSYLVANIA-----	5	74	21	187	0	0	26	261	12	66
PUERTO RICO-----	1	112	0	0	0	0	1	112	0	71
RHODE ISLAND-----	5	39	1	18	0	0	6	57	-1	-21
SOUTH CAROLINA-----	0	0	5	34	0	0	5	34	2	-8
TENNESSEE-----	2	6	18	78	0	0	20	84	1	-28
TEXAS-----	6	29	33	345	1	2	40	376	1	-15
UTAH-----	4	41	4	27	1	3	9	71	6	55
VERMONT-----	6	22	7	107	0	0	13	129	1	-48
VIRGINIA-----	9	95	15	121	0	0	24	216	3	59
WASHINGTON-----	3	34	64	438	1	7	68	479	11	1
WEST VIRGINIA-----	6	55	1	7	0	0	7	62	1	23
WISCONSIN-----	10	78	35	442	7	67	52	587	-9	-192
WYOMING-----	4	40	1	8	0	0	5	48	5	48
NCOHIP TOTAL-----	426	3,454	1,164	10,720	26	275	1,616	14,449	205	915

1/ INCLUDES PUERTO RICO.

TABLE 25.--TYPES OF SERVICES BY STATE FOR COWS AND GOATS IN NCDHIP, JANUARY 1, 1962

STATE 1/	CCM HERDS	CCWS	DCE HERDS	GLCS	STATE 1/	CCM HERDS	CCWS	DCE HERDS	GLCS
NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
MASTITIS SCREENING					PROTEIN (CCN)				
ALABAMA-----	102	12,673	0	0	CALIFORNIA-----	58	12,570	11	57
ALASKA-----	3	231	0	0	COLORADO-----	254	33,580	39	199
ARIZONA-----	105	43,232	3	39	CONNECTICUT-----	37	2,324	0	0
ARKANSAS-----	43	2,512	0	0	DELAWARE-----	3	115	0	0
CALIFORNIA-----	1,098	450,574	93	1,770	FLORIDA-----	4	769	0	0
COLORADO-----	255	33,643	21	136	GEORGIA-----	35	4,143	0	0
CONNECTICUT-----	64	6,284	0	0	IDAHO-----	155	13,508	15	80
DELAWARE-----	2	80	0	0	ILLINOIS-----	36	1,720	0	0
FLORIDA-----	39	12,509	0	0	INDIANA-----	582	36,558	0	0
GEORGIA-----	222	26,634	0	0	IOWA-----	104	4,736	0	0
HAWAII-----	11	6,151	0	0	KENTUCKY-----	41	2,535	0	0
IDAHO-----	95	14,531	10	53	MAINE-----	41	2,270	7	43
ILLINOIS-----	508	31,662	0	0	MARYLAND-----	6	826	0	0
INDIANA-----	143	9,575	0	0	MASSACHUSETTS-----	40	1,984	0	0
IOWA-----	868	48,044	0	0	MICHIGAN-----	80	4,665	18	96
KANSAS-----	429	30,919	0	0	MISSISSIPPI-----	1	115	0	0
KENTUCKY-----	200	13,133	0	0	MONTANA-----	43	3,547	5	11
LOUISIANA-----	27	2,500	0	0	NEBRASKA-----	2	106	0	0
MAINE-----	136	7,032	7	42	NEVADA-----	1	258	0	0
MARYLAND-----	250	21,445	0	0	NEW HAMPSHIRE-----	55	3,050	0	0
MASSACHUSETTS-----	60	3,193	0	0	NEW JERSEY-----	235	17,030	33	255
MICHIGAN-----	843	66,696	0	0	NEW MEXICO-----	4	863	0	0
MINNESOTA-----	3,038	154,648	0	0	NEW YORK-----	6,329	408,791	108	683
MISSISSIPPI-----	2	293	0	0	NORTH CAROLINA-----	32	2,552	0	0
MISSOURI-----	366	35,664	0	0	NORTH DAKOTA-----	3	137	0	0
MONTANA-----	92	8,521	8	27	OHIO-----	451	25,420	35	285
NEBRASKA-----	95	6,627	0	0	OKLAHOMA-----	9	506	0	0
NEVADA-----	41	8,383	1	3	OREGON-----	53	6,216	1	11
NEW HAMPSHIRE-----	101	6,822	7	76	PENNSYLVANIA-----	163	8,851	0	0
NEW JERSEY-----	112	8,982	8	44	SOUTH CAROLINA-----	29	4,529	0	0
NEW MEXICO-----	26	16,663	1	120	SOUTH DAKOTA-----	5	305	0	0
NEW YORK-----	2,425	159,861	26	180	TENNESSEE-----	1	189	0	0
NORTH CAROLINA-----	258	29,884	0	0	TEXAS-----	668	86,500	0	0
NORTH DAKOTA-----	51	3,278	0	0	UTAH-----	398	45,069	7	60
OHIO-----	1,167	71,058	12	152	VERMONT-----	207	9,514	2	55
OKLAHOMA-----	125	9,035	0	0	WASHINGTON-----	783	109,610	61	449
OREGON-----	177	24,517	1	12	WEST VIRGINIA-----	2	215	0	0
PENNSYLVANIA-----	2,954	160,726	0	0	WISCONSIN-----	6,349	339,712	0	0
PUERTO RICO-----	30	4,486	0	0	WYOMING-----	21	1,817	1	8
RHODE ISLAND-----	6	382	4	28	NCDHIP TOTAL-----	17,342	1,170,637	344	2,356
SOUTH CAROLINA-----	68	10,450	0	0	SNF				
SOUTH DAKOTA-----	238	15,501	0	0	ALASKA-----	3	231	0	0
TENNESSEE-----	347	33,713	0	0	CALIFORNIA-----	717	247,551	17	662
TEXAS-----	167	22,251	0	0	COLORADO-----	1	63	0	0
UTAH-----	398	45,198	7	64	IDAHO-----	10	690	0	0
VERMONT-----	329	19,254	2	7	IOWA-----	4	247	0	0
VIRGINIA-----	513	50,405	0	0	KANSAS-----	15	932	0	0
WASHINGTON-----	570	37,710	6	71	MARYLAND-----	0	0	1	26
WEST VIRGINIA-----	40	3,751	0	0	MONTANA-----	0	0	3	231
WISCONSIN-----	4,395	223,543	0	0	NEBRASKA-----	6	384	0	0
WYOMING-----	11	762	0	0	NEVADA-----	9	1,414	0	0
NCDHIP TOTAL-----	23,645	2,068,221	217	2,824	NORTH DAKOTA-----	2	74	0	0
PROTEIN					OREGON-----	43	3,692	29	274
ALABAMA-----	17	2,298	0	0	UTAH-----	1	156	0	0
ARKANSAS-----	5	334	1	54	NCDHIP TOTAL-----	811	255,437	50	1,193

1/ INCLUDES PUERTO RICO IN MASTITIS SCREENING.

TABLE 26.--SUMMARY OF VERIFIED IDENTIFICATION PROGRAM (VIP) ACTIVITY BY STATE, 1980-81 AND ALL YEARS

STATE 1/	1980				1981				ALL YEARS 2/			
	HERDS	MALES	FEMALES	ALL ANIMALS	HERDS	MALES	FEMALES	ALL ANIMALS	HERDS	MALES	FEMALES	ALL ANIMALS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ARKANSAS-----	6	0	212	212	7	0	133	133	20	0	524	524
CALIFORNIA-----	0	0	0	0	0	0	0	0	3	47	0	47
CONNECTICUT-----	0	0	0	0	0	0	0	0	1	0	1	1
DELAWARE-----	1	0	11	11	1	0	6	6	5	0	37	37
FLORIDA-----	3	0	75	75	2	0	63	63	11	0	249	249
IDAHO-----	4	4	81	85	7	5	193	198	15	15	352	367
ILLINOIS-----	29	0	524	524	39	4	611	615	156	11	2,565	2,576
INDIANA-----	9	0	242	242	6	0	154	154	35	0	876	876
IOWA-----	107	9	1,277	1,286	143	35	1,519	1,554	569	81	7,262	7,343
KANSAS-----	128	9	2,495	2,504	161	14	3,103	3,117	596	42	14,001	14,043
KENTUCKY-----	3	1	74	75	2	0	58	58	18	3	377	380
MAINE-----	9	0	58	58	7	0	52	52	31	3	303	306
MARYLAND-----	25	0	330	330	62	6	2,060	2,066	112	8	2,746	2,754
MASSACHUSETTS-----	1	0	6	6	3	0	11	11	8	0	120	120
MICHIGAN-----	10	1	136	137	12	2	93	95	59	12	756	768
MINNESOTA-----	80	16	935	951	97	6	1,516	1,522	389	46	6,024	6,070
MISSOURI-----	122	11	1,686	1,697	135	23	1,924	1,947	478	77	7,218	7,295
MONTANA-----	1	0	17	17	0	0	0	0	1	0	17	17
NEBRASKA-----	51	17	996	1,013	53	30	907	937	200	92	3,976	4,068
NEW HAMPSHIRE-----	1	0	13	13	0	0	0	0	8	1	41	42
NEW JERSEY-----	0	0	0	0	0	0	0	0	1	0	3	3
NEW YORK-----	62	2	1,036	1,038	64	1	870	871	352	15	4,849	4,864
NORTH CAROLINA---	1	0	30	30	1	0	28	28	9	0	98	98
NORTH DAKOTA-----	2	0	18	18	2	1	36	37	16	2	138	140
OHIO-----	58	10	1,092	1,102	80	7	1,540	1,547	252	28	4,109	4,137
OKLAHOMA-----	12	6	366	372	18	3	335	338	50	12	1,365	1,377
PENNSYLVANIA-----	21	0	160	160	21	1	191	192	105	2	976	978
PUERTO RICO-----	10	3	72	75	6	3	25	28	16	6	97	103
SOUTH CAROLINA---	3	0	0	0	3	0	16	16	4	0	21	21
SOUTH DAKOTA-----	12	0	208	208	12	1	171	172	40	1	522	523
TEXAS-----	0	0	0	0	0	0	0	0	1	0	1	1
UTAH-----	3	0	22	22	2	0	2	2	15	2	260	262
VERMONT-----	2	0	22	22	1	0	26	26	4	0	49	49
VIRGINIA-----	1	0	50	50	6	0	163	163	7	0	213	213
WASHINGTON-----	0	0	0	0	0	0	0	0	3	0	96	96
WISCONSIN-----	65	1	487	488	70	0	783	783	238	17	2,647	2,664
WYOMING-----	0	0	0	0	0	0	0	0	0	0	0	0
NCOHIP TOTAL-----	839	90	12,731	12,821	1,023	142	16,589	16,731	3,828	523	62,889	63,412

1/ INCLUDES PUERTO RICO.

2/ INCLUDES 1976-81.

TABLE 27.--SUMMARY OF OFFICIAL DAIRY RECORDKEEPING PLANS, 1906-82 1/

YEAR	ASSOCIATIONS	SUPERVISORS	HERDS ENROLLED	COWS ENROLLED	COWS PER HERD	COWS ENROLLED	HERDS REPORTED	COWS REPORTED	AVERAGE PRODUCTION			ALL MILK COWS	ALL PLANS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	PCT	NUMBER	NUMBER	LB	PCT	LB	THOUSANDS	PCT
1906----	1	---	31	239	7.7	(5/)	---	---	5,300	4.06	215	17,110	(5/)
1907----	4	---	---	1,606	---	(5/)	---	---	5,366	4.10	220	17,505	(5/)
1908----	6	---	---	3,921	---	(5/)	---	---	---	---	---	17,872	(5/)
1909----	25	---	---	11,721	---	0.1	---	---	---	---	---	18,081	0.1
1910----	40	---	---	67,250	---	0.1	---	---	675,730	3.96	6227	18,300	0.1
1911----	64	---	---	67,400	---	0.2	---	---	---	---	---	18,302	0.2
1912----	82	---	---	67,430	---	0.2	---	---	---	---	---	18,397	0.2
1913----	100	---	---	47,150	---	0.3	---	---	---	---	---	18,460	0.3
1914----	163	---	---	73,260	---	0.4	---	---	---	---	---	18,701	0.4
1915----	211	---	---	105,526	---	0.6	---	---	---	---	---	19,150	0.6
1916----	346	---	---	150,677	---	0.8	---	---	---	---	---	19,632	0.8
1917----	459	---	11,720	216,831	18.5	1.1	---	---	---	---	---	20,092	1.1
1918----	353	---	9,778	172,518	17.6	0.8	---	---	---	---	---	20,416	0.8
1919----	385	---	10,000	167,313	16.7	0.8	---	---	---	---	---	20,425	0.8
1920----	468	---	11,548	203,472	17.0	1.0	---	---	6,175	4.00	247	20,335	1.0
1921----	452	---	11,209	193,928	17.3	1.0	---	---	---	---	---	20,336	1.0
1922----	513	---	12,508	215,321	17.2	1.0	---	---	---	---	---	20,731	1.0
1923----	627	---	16,357	277,010	16.9	1.3	---	---	---	---	---	21,018	1.3
1924 7/----	---	---	---	---	---	---	---	---	---	---	---	21,211	---
1925----	732	---	18,677	307,073	16.4	1.4	---	42,302	7,189	3.95	264	21,417	1.4
1926----	777	---	19,540	327,653	16.8	1.5	---	103,443	7,331	3.96	290	21,503	1.5
1927----	837	---	21,128	362,014	17.1	1.7	---	116,509	7,411	3.95	293	21,312	1.7
1928----	947	---	23,327	414,891	17.8	2.0	---	152,412	7,476	3.96	296	21,191	2.0
1929----	1,090	---	26,182	465,804	17.8	2.2	---	194,859	7,498	3.97	298	21,223	2.2
1930----	1,143	---	27,888	507,549	18.2	2.4	---	235,624	7,642	3.96	303	21,018	2.4
1931----	1,112	---	26,308	510,714	19.4	2.3	---	219,924	7,812	3.92	306	22,218	2.3
1932----	1,305	---	20,351	427,044	21.0	1.9	---	186,683	7,858	3.95	310	23,108	1.9
1933----	881	---	15,447	358,501	23.2	1.5	---	163,014	7,849	3.99	313	24,105	1.5
1934----	793	---	13,654	325,637	23.6	1.3	---	203,930	8,015	4.02	322	25,062	1.3
1935----	809	---	15,573	364,218	23.4	1.5	---	200,367	7,977	4.04	322	25,198	1.5
1936----	376	---	17,344	404,412	23.3	1.7	---	257,248	7,912	4.03	319	24,187	1.7
1937----	952	---	20,772	496,562	23.9	2.1	---	354,566	7,923	4.04	320	23,727	2.1
1938----	1,106	---	23,701	558,993	23.6	2.4	---	448,025	7,831	4.05	317	23,340	2.4
1939----	1,228	---	25,549	625,284	24.1	2.7	---	507,563	7,977	4.05	323	23,215	2.7
1940----	1,300	---	27,948	676,141	24.2	2.9	---	545,332	8,133	4.07	331	23,273	2.9
1941----	1,383	---	31,381	763,502	24.3	3.2	---	591,103	8,225	4.07	335	23,671	3.2
1942----	1,421	---	32,557	816,117	24.8	3.4	---	514,758	8,323	4.07	339	24,288	3.4
1943----	1,057	---	24,155	616,972	25.5	2.5	---	375,914	8,325	4.06	338	25,027	2.5
1944----	954	---	20,825	561,587	27.0	2.2	---	383,337	8,296	4.05	336	25,451	2.2
1945----	949	---	21,254	577,200	27.2	2.3	---	384,360	8,592	4.03	346	25,597	2.3
1946----	1,124	---	23,331	627,478	27.0	2.5	---	413,554	8,635	4.04	349	25,033	2.5
1947----	1,426	---	28,812	775,546	26.9	3.2	---	533,061	8,638	4.03	348	24,089	3.2
1948----	1,668	---	33,274	886,129	26.6	3.8	---	620,385	8,675	4.03	350	23,329	3.8
1949----	1,787	---	35,851	943,539	26.3	4.2	---	729,150	8,907	4.03	359	22,336	4.2
1950----	1,973	---	40,100	1,088,872	27.2	4.9	---	836,922	9,172	4.03	370	22,024	4.9
1951----	2,143	---	42,945	1,186,615	27.6	5.4	---	885,855	9,195	4.02	370	21,944	5.4
1952----	2,109	---	40,105	1,166,297	29.1	5.4	---	928,376	9,192	3.98	366	21,505	5.4
1953----	2,151	---	40,983	1,226,588	29.9	5.8	---	1,020,326	9,253	3.98	368	21,338	5.8
1954----	2,175	---	41,254	1,311,698	31.8	6.1	---	1,079,557	9,363	3.97	372	21,691	6.1
1955----	2,288	---	41,240	1,333,866	32.3	6.2	---	1,175,378	9,502	3.95	375	21,581	6.2
1956----	2,266	---	40,584	1,406,306	34.4	6.7	---	1,229,971	9,713	3.94	383	21,044	8/8.5
1957----	1,700	2,310	41,638	1,479,799	35.5	7.2	---	1,256,129	9,894	3.93	369	20,501	9/9.3
1958----	1,544	2,293	39,985	1,548,884	38.7	7.8	---	1,345,750	10,068	3.91	394	19,774	10.7
1959----	1,500	2,337	40,284	1,607,538	39.9	8.6	---	1,406,665	10,327	3.88	401	18,711	11.9
1960----	1,509	2,397	41,293	1,746,752	42.3	9.8	---	1,406,665	10,327	3.88	401	18,711	11.9
1961----	1,395	2,448	42,558	1,867,469	43.9	10.7	28,649	1,280,785	10,796	3.87	418	17,515	14.8
1962----	1,436	2,472	42,034	1,958,355	46.6	11.4	32,794	1,531,826	11,032	3.86	426	17,243	15.8
1963----	1,441	2,516	41,937	2,006,534	47.8	11.9	35,378	1,674,803	11,286	3.85	434	16,842	16.5
1964----	1,420	2,474	40,670	2,010,144	49.4	12.4	35,689	1,746,475	11,665	3.83	447	16,260	17.4
1965----	1,424	2,439	40,075	2,087,581	52.1	13.3	35,604	1,821,252	11,576	3.82	457	15,677	18.9
1966----	1,418	2,378	38,879	2,058,592	52.9	13.8	34,886	1,852,543	12,127	3.81	462	14,953	19.8
1967----	1,344	2,319	37,683	2,098,919	55.7	14.9	34,515	1,890,024	12,307	3.80	468	14,071	21.2
1968----	1,318	2,304	36,669	2,131,929	57.8	15.9	33,560	1,924,200	12,397	3.80	471	13,415	22.6
1969----	1,289	2,250	35,617	2,138,953	60.1	16.7	33,130	1,959,647	12,553	3.79	476	12,832	23.5
1970----	1,267	2,225	34,308	2,122,011	61.9	17.2	31,138	1,937,390	12,750	3.79	483	12,307	25.3
1971----	1,274	2,201	33,556	2,118,402	65.3	18.6	30,699	1,995,463	13,000	3.76	489	11,909	26.8
1972----	1,247	2,186	33,197	2,144,685	67.6	19.1	30,190	2,050,132	13,226	3.75	496	11,776	27.2
1973----	1,231	2,164	33,578	2,359,611	70.3	20.3	30,826	2,177,626	13,287	3.76	499	11,622	28.7
1974----	1,130	2,209	33,146	2,416,669	72.9	21.4	30,280	2,221,349	13,163	3.75	493	11,297	30.2
1975----	1,105	2,183	32,222	2,432,961	75.5	21.7	29,543	2,216,817	13,421	3.76	505	11,220	31.0
1976----	1,051	2,218	32,232	2,438,365	75.7	22.0	29,634	2,240,752	13,632	3.75	511	11,087	31.4
1977----	1,028	2,266	33,755	2,581,164	76.5	23.4	30,764	2,373,261	14,435	3.73	539	11,035	33.5
1978----	1,046	2,432	34,572	2,704,064	77.3	24.7	31,783	2,476,946	14,631	3.70	542	10,930	35.4
1979----	1,045	2,541	36,105	2,792,175	77.3	25.7	32,831	2,571,361	14,644	3.70	542	10,853	36.8
1980----	1,025	2,638	37,576	2,966,558	78.9	26.8	34,448	2,771,379	14,786	3.70	547	11,074	37.9
1981----	1,066	2,824	39,524	3,197,353	80.8	28.7	35,206	2,867,177	14,960	3.70	553	11,135	40.2
1982----	1,084	2,916	40,533	3,382,977	82.6	30.5	36,690	3,047,260	15,134	3.68	558	11,107	43.1

1/ DASHES INDICATE DATA NOT REPORTED OR CALCULATED.

2/ HERDS AND COWS ARE ENROLLED AS OF JANUARY 1 OF THE STATED YEAR. FROM 1961, THE REPORTED HERDS AND COWS AND AVERAGE PRODUCTION WILL BE FOR THE CALENDAR YEAR IMMEDIATELY PRECEDING THE STATED YEAR. INCLUDES ALL PLANS.

3/ INCLUDES ALL PLANS. PRIOR TO 1957, ASSOCIATIONS WERE COUNTED BASED ON SUPERVISOR CIRCUITS.

4/ 1906-24, U.S. ESTIMATE OF COWS AND HEIFERS 2 YEARS OLD AND CLOSER JANUARY 1, KEPT FOR MILK, EXCLUDING THOSE NOT FRESH. ESTIMATED BY SUBTRACTING 1,120,000 FROM DATA IN TABLE 543, "AGRICULTURAL STATISTICS, 1967," FOR COWS AND HEIFERS 2 YEARS AND OLDER, KEPT FOR MILK.

1925-70, U.S. AVERAGE OF MILK COWS ON FARMS FOR PREVIOUS YEAR, EXCLUDING HEIFERS NOT YET FRESH. ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA).

1971-79, U.S. MILK COWS THAT HAVE CALVED JANUARY 1 OF STATED YEAR. ESTIMATED BY THE STATISTICAL REPORTING SERVICE (USDA) AND PUBLISHED IN "CATTLE." FINAL ESTIMATES FOR 1971-75 ARE IN "STATISTICAL BULLETIN 589." DATA FOR 1976-79 ARE PRELIMINARY.

5/ LESS THAN 0.05 PERCENT.

6/ ESTIMATED.

7/ DATE FOR COLLECTING DATA CHANGED IN 1924 FROM JULY 1 TO JANUARY 1, SO 1924 DATA WERE OMITTED.

8/ COWER-SAMPLER TABULATION BEGAN IN 1956.

9/ WEIGH-A-DAY-A-MONTH TABULATION BEGAN IN 1957.

10/ AVERAGES FOR 1959 AND 1961. NATIONAL TESTING YEAR CHANGED IN 1960 TO BEGIN MAY 1.

TABLE 28.--SUMMARY OF NONOFFICIAL DAIRY RECORDKEEPING PLANS FOR WHICH PRODUCTION AVERAGES ARE CALCULATED, 1956-82 1/ 2/

YEAR	HERDS EN- ROLLED	COWS EN- ROLLED	COWS PER HERD	COWS ENROLLED	HERDS REPORTED	COWS REPORTED	AVERAGE PRODUCTION		
							MILK	FAT	FAT
	NUMBER	NUMBER	NUMBER	PCT	NUMBER	NUMBER	LB	PCT	LB
1956-----	17,110	374,479	21.9	1.8	---	---	---	---	---
1957-----	20,778	405,090	19.5	2.0	---	---	---	---	---
1958-----	21,269	490,001	23.0	2.5	---	---	---	---	---
1959-----	22,807	549,916	24.1	2.9	---	---	---	---	---
1960-----	24,274	615,899	25.4	3.4	---	---	---	---	---
1961-----	24,498	655,885	26.8	3.7	---	---	---	---	---
1962-----	24,954	698,302	28.0	4.1	---	---	---	---	---
1963-----	25,376	726,478	28.6	4.3	14,761	423,545	10,606	3.73	396
1964-----	25,598	752,229	29.4	4.6	13,574	385,493	10,885	3.71	404
1965-----	26,604	818,406	30.8	5.2	18,409	559,608	11,402	3.71	423
1966-----	26,259	839,838	32.0	5.6	19,172	598,133	11,472	3.70	425
1967-----	25,439	825,127	32.4	5.9	17,912	575,816	11,607	3.72	432
1968-----	25,143	847,485	33.7	6.3	17,318	592,647	11,847	3.72	441
1969-----	24,359	842,330	34.6	6.6	17,908	614,939	11,932	3.72	444
1970-----	23,281	839,343	36.1	6.8	16,971	611,819	12,185	3.72	453
1971-----	22,581	836,751	37.1	7.0	16,569	612,080	12,413	3.71	460
1972-----	21,345	805,555	37.7	6.8	16,107	618,088	12,544	3.74	466
1973-----	20,895	806,270	38.6	6.9	16,183	631,269	12,488	3.75	468
1974-----	19,738	783,195	39.7	6.9	16,037	639,964	12,353	3.75	463
1975-----	18,112	749,807	41.4	6.7	14,704	610,910	12,503	3.80	475
1976-----	19,999	943,451	47.2	8.5	16,784	753,089	13,104	3.79	497
1977-----	21,000	1,006,359	47.9	9.1	17,662	815,988	13,539	3.76	509
1978-----	22,626	1,159,776	51.3	9.7	18,675	891,738	13,771	3.75	516
1979-----	22,745	1,201,500	52.8	11.1	19,248	933,631	13,847	3.77	522
1980-----	22,943	1,225,311	53.4	11.1	19,328	953,595	13,969	3.77	527
1981-----	23,451	1,282,715	54.7	11.5	19,617	980,870	14,080	3.76	529
1982-----	24,940	1,407,203	56.4	12.7	21,343	1,170,575	14,101	3.74	530

1/ DASHES INDICATE DATA NOT TABULATED OR AVAILABLE. OWNER-SAMPLER PLAN BEGAN IN 1956. STARTING IN 1976, ALL DATA ARE FOR THE FOLLOWING NONOFFICIAL PLANS: OWNER-SAMPLER (EXCLUDING OS-8AF AND OS-PTF), ALTERNATE AM-PM, COMMERCIAL, BIMONTHLY, AND TRIMONTHLY.

2/ HERDS AND COWS ARE ENROLLED AS OF JANUARY 1 OF THE STATED YEAR. FROM 1981 ON, THE REPORTED HERDS AND COWS AND AVERAGE PRODUCTION WILL BE FOR THE CALENDAR YEAR IMMEDIATELY PRECEDING THE STATED YEAR.

TABLE 29.--EXTENSION DAIRY SPECIALISTS ADVISING ON THE NATIONAL COOPERATIVE DAIRY HERD IMPROVEMENT PROGRAM AS OF JANUARY 1, 1982

ALABAMA-----HOWARD S. JONES, EXTENSION ANIMAL SCIENCE, AUBURN UNIVERSITY, AUBURN 36830.

ALASKA-----ARTHUR L. BRUNDAGE, AGRICULTURAL EXPERIMENT STATION, UNIVERSITY OF ALASKA, PALMER 99645.

ARIZONA-----DENNIS V. ARMSTRONG, DEPT. OF ANIMAL SCIENCES, UNIVERSITY OF ARIZONA, TUCSON 85721.

ARKANSAS-----RALPH WILLIAMS, COOPERATIVE EXTENSION SERVICE, P.O. BOX 391, LITTLE ROCK 72203.

CALIFORNIA-----FRANK O. MURRILL, DEPT. OF ANIMAL SCIENCE, UNIVERSITY OF CALIFORNIA, DAVIS 95616.

COLORADO-----DANSON C. JORDAN, DEPT. OF ANIMAL SCIENCES, COLORADO STATE UNIVERSITY, FORT COLLINS 80523.

CONNECTICUT-----ROBERT H. BENSON, DEPT. OF ANIMAL INDUSTRIES, UNIVERSITY OF CONNECTICUT, STORRS 06268.

DELAWARE-----GEORGE F. W. HAENLEIN, DEPT. OF ANIMAL SCIENCE AND AGRICULTURAL BIOCHEMISTRY, UNIVERSITY OF DELAWARE, NEWARK 19711.

FLORIDA-----DANIEL W. WEBB, DEPT. OF DAIRY SCIENCE, UNIVERSITY OF FLORIDA, GAINESVILLE 32611.

GEORGIA-----JAMES S. EDWARDS, DEPT. OF ANIMAL AND DAIRY SCIENCE, UNIVERSITY OF GEORGIA, ATHENS 30602.

HAWAII-----RICHARD STANLEY, DEPT. OF ANIMAL SCIENCE, UNIVERSITY OF HAWAII, HONOLULU 96822.

IDAHO-----EDWARD A. FIEZ, SOUTHWEST RESEARCH AND EXTENSION CENTER, RTE. 8, BOX 8478, CALDWELL, IDAHO 83605.

ILLINOIS-----GERHARD W. HARPESTAD, DAIRY SCIENCE DEPT., UNIVERSITY OF ILLINOIS, URBANA 61801.

INDIANA-----WILLARD M. OILDON, DEPT. OF ANIMAL SCIENCES, PURDUE UNIVERSITY, WEST LAFAYETTE 47907.

IOWA-----DONALD E. VOECKER, DEPT. OF ANIMAL SCIENCE, IOWA STATE UNIVERSITY, AMES 50011.

KANSAS-----J. H. DUNHAM, DEPT. OF ANIMAL SCIENCES AND INDUSTRY, KANSAS STATE UNIVERSITY, MANHATTAN 66506.

KENTUCKY-----KENNETH E. OLSON, DEPT. OF ANIMAL SCIENCE, UNIVERSITY OF KENTUCKY, LEXINGTON 40506.

LOUISIANA-----JAMES F. BEATTY, DEPT. OF DAIRY SCIENCE, LOUISIANA STATE UNIVERSITY, BATON ROUGE 70893.

MAINE-----CALVIN K. WALKER, DEPT. OF ANIMAL AND VETERINARY SCIENCES, UNIVERSITY OF MAINE, ORONO 04469.

MARYLAND-----J. LEE MAJESKIE, DEPT. OF DAIRY SCIENCE, MARYLAND STATE UNIVERSITY, COLLEGE PARK 20742.

MASSACHUSETTS-----ROBERT W. PRANGE, DEPT. OF VETERINARY AND ANIMAL SCIENCES, UNIVERSITY OF MASSACHUSETTS, AMHERST 01003.

MICHIGAN-----THEODORE A. FERRIS, DEPT. OF DAIRY SCIENCE, MICHIGAN STATE UNIVERSITY, EAST LANSING 48824.

MINNESOTA-----J. WILLIAM MUDGE, DEPT. OF ANIMAL SCIENCE, UNIVERSITY OF MINNESOTA, ST. PAUL 55103.

MISSISSIPPI-----L. MYLES CARPENTER, DEPT. OF DAIRY SCIENCE, MISSISSIPPI STATE UNIVERSITY, MISSISSIPPI STATE 39762.

MISSOURI-----REX E. RICKETTS, DEPT. OF DAIRY HUSBANDRY, UNIVERSITY OF MISSOURI, COLUMBIA 65211.

MONTANA-----JOHN M. BRYANT, DEPT. OF ANIMAL AND RANGE SCIENCES, MONTANA STATE UNIVERSITY, BOZEMAN 59717.

NEBRASKA-----PHILIP H. COLE, DEPT. OF ANIMAL SCIENCE, UNIVERSITY OF NEBRASKA, LINCOLN 68503.

NEVADA-----ALFRED W. NORMAN, DEPT. OF ANIMAL SCIENCE, UNIVERSITY OF NEVADA, RENO 89557.

NEW HAMPSHIRE-----JAMES W. SMITH, DEPT. OF ANIMAL SCIENCES, UNIVERSITY OF NEW HAMPSHIRE, DURHAM 03824.

NEW JERSEY-----EDWARD T. OLESKIE, DEPT. OF ANIMAL SCIENCE, RUTGERS UNIVERSITY, NEW BRUNSWICK 08903.

NEW MEXICO-----J. BURDEN ELLS, DEPT. OF ANIMAL AND RANGE SCIENCES, NEW MEXICO STATE UNIVERSITY, LAS CRUCES 88003.

NEW YORK-----HARRY R. AINSLIE, DEPT. OF ANIMAL SCIENCE, CORNELL UNIVERSITY, ITHACA 14853.

NORTH CAROLINA-----FRANK O. SARGENT, DEPT. OF ANIMAL SCIENCE, NORTH CAROLINA STATE UNIVERSITY, RALEIGH 27650.

NORTH DAKOTA-----GEORGE R. FISHER, DEPT. OF ANIMAL SCIENCE, NORTH DAKOTA STATE UNIVERSITY, FARGO 58105.

OHIO-----ROBERT M. PORTER, DEPT. OF DAIRY SCIENCE, OHIO STATE UNIVERSITY, COLUMBUS 43210.

OKLAHOMA-----JACK O. STOUT, DEPT. OF ANIMAL SCIENCE, OKLAHOMA STATE UNIVERSITY, STILLWATER 74074.

OREGON-----DONALD CLAYPOOL, DEPT. OF ANIMAL SCIENCE, OREGON STATE UNIVERSITY, CORVALLIS 97331.

PENNSYLVANIA-----C. WILLIAM HEALD, DEPT. OF DAIRY AND ANIMAL SCIENCE, PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK 16802.

PUERTO RICO-----JOSE L. VALE-SALINAS, DEPT. OF ANIMAL INDUSTRY, UNIVERSITY OF PUERTO RICO, MAYAGUEZ 00708.

RHODE ISLAND-----WALTER A. GROSS, DEPT. OF ANIMAL AND VETERINARY SCIENCE, UNIVERSITY OF RHODE ISLAND, KINGSTON 02881.

SOUTH CAROLINA-----FRED E. PARDUE, DEPT. OF DAIRY SCIENCE, CLEMSON UNIVERSITY, CLEMSON 29631.

SOUTH DAKOTA-----MYERS J. DWENS, DEPT. OF DAIRY SCIENCE, SOUTH DAKOTA STATE UNIVERSITY, BROOKINGS 57007.

TENNESSEE-----V. O. PARSUNS, DEPT. OF ANIMAL SCIENCE, UNIVERSITY OF TENNESSEE, KNOXVILLE 37901.

TEXAS-----MICHAEL A. TOMASZEWSKI, DEPT. OF ANIMAL SCIENCE, TEXAS A & M UNIVERSITY, COLLEGE STATION 77643.

UTAH-----MALLACE R. TAYLOR, DEPT. OF ANIMAL, DAIRY, AND VETERINARY SCIENCES, UTAH STATE UNIVERSITY, LOGAN 84322.

VERMONT-----JAMES A. GILMORE, DEPT. OF ANIMAL SCIENCES, UNIVERSITY OF VERMONT, BURLINGTON 05405.

VIRGIN ISLANDS-----HAROLD D. HUPP, EXTENSION SERVICE, COLLEGE OF THE VIRGIN ISLANDS, ST. CROIX 00850.

VIRGINIA-----BENNET G. CASSELL, DEPT. OF DAIRY SCIENCE, VIRGINIA POLYTECHNIC INSTITUTE, BLACKSBURG 24061.

WASHINGTON-----GRADY F. WILLIAMS, DEPT. OF ANIMAL SCIENCES, WASHINGTON STATE UNIVERSITY, PUYALLUP 98371.

WEST VIRGINIA-----ROBERT C. KELLEY, DIVISION OF ANIMAL AND VETERINARY SCIENCES, WEST VIRGINIA UNIVERSITY, MORGANTOWN 26506.

WISCONSIN-----DAVID P. OLICKSON, DEPT. OF DAIRY SCIENCE, UNIVERSITY OF WISCONSIN, MADISON 53706.

WYOMING-----HAROLD D. RADLOFF, DIVISION OF ANIMAL SCIENCE, UNIVERSITY OF WYOMING, LARAMIE 82071.

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